act	gegg	gga gga	gcag	scccg ggac	rca g	gagaa caccc	agga tgct c at	ig gg	agct cgga g ga	ggca gctc a ct	cca ctg g tg	icact jcaaa jc co ys Ar	ggg agc cag	cttt aaac g ga	agctco ggagao ctgaga c tcc p Ser	c 120
gca Ala 10	Leu	acg Thr	gca Ala	ctg Leu	gac Asp 15	Glu	gag Glu	aca Thr	ctg Leu	tgg Trp 20	Glu	ı atçı Met	atg Met	gag Glu	agc Ser 25	281
cac His	cgc Arg	cac His	agg Arg	atc Ile 30	Val	. cgc . Arg	tgc Cys	atc	tgc Cys 35	Pro	ago Ser	cgc Arg	ctc Leu	acc Thr	ccc	329
tac Tyr	ctg Leu	cgc Arg	cag Gln 45	Ala	aag Lys	gtg Val	ctg Leu	tgc Cys 50	cag Gln	ctg Leu	gac Asp	gag Glu	gag Glu 55	Glu	gtg Val	377
ctg Leu	cac His	agc Ser 60	Pro	cgg Arg	ctc Leu	acc Thr	aac Asn 65	agc Ser	gcc Ala	atg Met	cgg Arg	gcc Ala 70	Gly	cac His	ttg Leu	425
ctg Leu	gat Asp 75	ttg Leu	ctg Leu	aag Lys	act Thr	cga Arg 80	Gly	aag Lys	aac Asn	Gly	gcc Ala 85	Ile	gcc Ala	ttc Phe	ctg Leu	473
gag Glu 90	agc Ser	ctg Leu	aag Lys	ttc Phe	cac His 95	aac Asn	cct Pro	gac Asp	gtc Val	tac Tyr 100	acc Thr	ctg Leu	gtc Val	acc Thr	ggg Gly 105	521
ctg Leu	cag Gln	cct Pro	gat Asp	gtt Val 110	gac Asp	ttc Phe	agt Ser	aac Asn	ttt Phe 115	agc Ser	GT Y	ctc Leu	atg Met	gag Glu 120	aca Thr	569
tcc Ser	aag Lys	ctg Leu	acc Thr 125	gag Glu	tgc Cys	ctg Leu	gct Ala	999 Gly 130	gcc Ala	atc Ile	ggc	agc Ser	ctg Leu 135	cag Gln	gag Glu	617
gag Glu	ctg Leu	aac Asn 140	cag Gln	gaa Glu	aag Lys	gly	cag Gln 145	aag Lys	gag Glu	gtg Val	ctg Leu	ctg Leu 150	cgg Arg	cgg Arg	tgc Cys	665
cag Gln	cag Gln 155	ctg Leu	cag Gln	gag Glu	cac His	ctg Leu 160	ggc Gly	ctg Leu	gcc Ala	gag Glu	acc Thr 165	cgt Arg	gcc Ala	gag Glu	ggc Gly	713
ctg Leu 170	cac His	cag Gln	ctg Leu	gag Glu	gct Ala 175	gac Asp	cac His	agc Ser	cgc Arg	atg Met 180	aag Lys	cgt Arg	gag Glu	gtt Val	agc Ser 185	761
gca Ala	cac His	ttc Phe	cat His	gag Glu 190	gtg Val	ctg Leu	agg Arg	ctg Leu	aag Lys 195	gac Asp	gag Glu	atg Met	ctc Leu	agc Ser 200	ctc Leu	809

FIG. 1A

tcg Ser	ctg Leu	cac His	tat Tyr 205	Ser	aat Asn	gcg Ala	ctg Leu	cag Gln 210	gag Glu	aag Lys	gag Glu	ctg Leu	gcc Ala 215	gcc Ala	tca Ser	857
cgc Arg	tgc Cys	cgc Arg 220	Ser	ctg Leu	cag Gln	gag Glu	gag Glu 225	ctg Leu	tat Tyr	cta Leu	ctg Leu	aag Lys 230	cag Gln	gag Glu	ctg Leu	905
cag Gln	cga Arg 235	Ala	aac Asn	atg Met	gtt Val	tcc Ser 240	tcc Ser	tgt Cys	gag Glu	ctg Leu	gaa Glu 245	ttg Leu	caa Gln	gag Glu	cag Gln	953
tcc Ser 250	ctg Leu	agg Arg	aca Thr	gcc Ala	agc Ser 255	gac Asp	cag Gln	gag Glu	tcc Ser	ggg Gly 260	gat Asp	gag Glu	gag Glu	ctg Leu	aac Asn 265	1001
cgc Arg	ctg Leu	aag Lys	gag Glu	gag Glu 270	aat Asn	gag Glu	aaa Lys	ctg Leu	cgc Arg 275	tcg Ser	ctg Leu	act Thr	ttc Phe	agc Ser 280	ctg Leu	1049
gcg Ala	gag Glu	aag Lys	gac Asp 285	att Ile	ctg Leu	gag Glu	cag Gln	agc Ser 290	ctg Leu	gac Asp	gag Glu	gcg Ala	cgg Arg 295	ggg	agc Ser	1097
cga Arg	cag Gln	gag Glu 300	ctg Leu	gtg Val	gag Glu	cgc Arg	atc Ile 305	cac His	tcg Ser	ctg Leu	cgg Arg	gag Glu 310	cgg Arg	gcc Ala	gtg Val	1145
gct Ala	gcc Ala 315	gag Glu	agg Arg	cag Gln	cga Arg	gag Glu 320	cag Gln	tac Tyr	tgg Trp	gaa Glu	gag Glu 325	aag Lys	gaa Glu	cag Gln	acc Thr	1193
ctg Leu 330	ctg Leu	cag Gln	ttc Phe	cag Gln	aag Lys 335	agt Ser	aag Lys	atg Met	gcc Ala	tgc Cys 340	caa Gln	ctc Leu	tac Tyr	agg Arg	gag Glu 345	1241
aag Lys	gtg Val	aat Asn	gcg Ala	ctg Leu 350	cag Gln	gcc Ala	cag Gln	gtg Val	tgc Cys 355	gag Glu	ctg Leu	cag Gln	aag Lys	gag Glu 360	cga Arg	1289
gac Asp	cag Gln	gcg Ala	tac Tyr 365	tcc Ser	gcg Ala	agg Arg	gac Asp	agt Ser 370	gct Ala	cag Gln	agg Arg	gag Glu	att Ile 375	tcc Ser	cag Gln	1337
agc Ser	ctg Leu	gtg Val 380	gag Glu	aag Lys	gac Asp	tcc Ser	ctc Leu 385	cgc Arg	agg Arg	cag Gln	gtg Val	ttc Phe 390	gag Glu	ctg Leu	acg Thr	1385
ASD	cag Gln 395	gtc Val	tgc Cys	gag Glu	ctg Leu	cgc Arg 400	aca Thr	cag Gln	ctt Leu	cgc Arg	cag Gln 405	ctg Leu	cag Gln	gca Ala	gag Glu	1433
cct Pro 410	ccg Pro	ggt Gly	gtg Val	ctc Leu	aag Lys 415	Gln	gaa Glu	Ala	Arg	acc Thr 420	agg Arg	gag Glu	ccc Pro	tgt Cys	cca Pro 425	1481

FIG. 1B

cgg Arg	gag Glu	aag Lys	cag Gln	cgg Arg 430	ctg Leu	gtg Val	cgg Arg	atg Met	cat His 435	gcc Ala	atc Ile	tgc Cys	ccc Pro	aga Arg 440	gac Asp	. 1529
gac Asp	agc Ser	gac Asp	tgc Cys 445	agc Ser	ctc Leu	gtc Val	agc Ser	tcc Ser 450	aca Thr	gag Glu	tct Ser	cag Gln	ctc Leu 455	ttg Leu	tcg Ser	1577
gac Asp	ctg Leu	agt Ser 460	gcc Ala	acg Thr	tcc Ser	agc Ser	cgc Arg 465	gag Glu	ctg Leu	gtg Val	gac Asp	agc Ser 470	ttc Phe	cgc Arg	tcc Ser	1625
agc Ser	agc Ser 475	ccc Pro	gcg Ala	ccc Pro	ccc Pro	agc Ser 480	cag Gln	cag Gln	tcc Ser	ctg Leu	tac Tyr 485	aag Lys	cgg Arg	gtg Val	gcc Ala	1673
gag Glu 490	gac Asp	ttc Phe	G]À aaa	gaa Glu	gaa Glu 495	ccc Pro	tgg Trp	tct Ser	ttc Phe	agc Ser 500	agc Ser	tgc Cys	ctg Leu	gag Glu	atc Ile 505	1721
ccg Pro	gag Glu	gga Gly	gac Asp	ccg Pro 510	gga Gly	gcc Ala	ctg Leu	ccg Pro	gga Gly 515	gct Ala	aag Lys	gca Ala	ggc Gly	gac Asp 520	cca Pro	1769
cac His	ctg Leu	gat Asp	tat Tyr 525	gag Glu	ctc Leu	cta Leu	gac Asp	acg Thr 530	gca Ala	gac Asp	ctt Leu	ccg Pro	cag Gln 535	ctg Leu	gaa Glu	1817
agc Ser	agc Ser	ctg Leu 540	cag Gln	cca Pro	gtc Val	tcc Ser	cct Pro 545	gga Gly	agg Arg	ctt Leu	gat Asp	gtc Val 550	tcg Ser	gag Glu	agc Ser	1865
Gly	gtc Val 555	ctc Leu	atg Met	cgg Arg	cgg Arg	agg Arg 560	cca Pro	gcc Ala	cgc Arg	agg Arg	atc Ile 565	ctg Leu	agc Ser	cag Gln	gtc Val	1913
acc Thr 570	atg Met	ctg Leu	gcg Ala	ttc Phe	cag Gln 575	ggg Gly	gat Asp	gca Ala	ttg Leu	ctg Leu 580	gag Glu	cag Gln	atc Ile	agc Ser	gtc Val 585	1961
atc Ile	ggc Gly	ggg Gly	aac Asn	ctc Leu 590	acg Thr	ggc Gly	atc Ile	ttc Phe	atc Ile 595	cac His	cgg Arg	gtc Val	acc Thr	ccg Pro 600	ggc Gly	2009
tcg Ser	gcg Ala	gcg Ala	gac Asp 605	cag Gln	atg Met	gcc Ala	ttg Leu	cgc Arg 610	ccg Pro	ggc Gly	acc Thr	cag Gln	att Ile 615	gtg Val	atg Met	2057
gtt Val	gat Asp	tac Tyr 620	gaa Glu	gcc Ala	tca Ser	gag Glu	ccc Pro 625	ttg Leu	ttc Phe	aag Lys	gca Ala	gtc Val 630	ctg Leu	gag Glu	gac Asp	2105
acg Thr	acc Thr 635	ctg Leu	gag Glu	gag Glu	gcc Ala	gtg Val 640	ggg Gly	ctt Leu	ctc Leu	agg Arg	agg Arg 645	gtg Val	gac Asp	ggc Gly	ttc Phe	2153

FIG. 1C

				aag Lys 655									•	2201
				aaa Lys										2249
				atg Met										2297
_		_	_	ctg Leu		-		_						2345
				cac His										2393
				atc Ile 735										2441
-			_	gac Asp	_		_	-	_					2489
				cca Pro	_	_	_	-						2537
	_	_	_	cct Pro	_	_	-			-				2585
				gag Glu			_	_	_					2633
				ccc Pro 815										2681
				ctc Leu										2729
				ctc Leu										2777
		Gln		gag Glu										2825

FIG. 1D

atc cag gag gga gag Ile Gln Glu Gly Glu 875				
gct gtg gag tec etc Ala Val Glu Ser Leu 890				
cag ctg gac agt gtc Gln leu Asp Ser Val 910	Cys Thr Leu	cac agg atg His Arg Met 915	gac atc ttc ccc Asp Ile Phe Pro 920	Ile
gtc atc cac gtc tct Val Ile His Val Ser 925	gtc aac gag Val Asn Glu	aag atg gca Lys Met Ala 930	aag aag ctc aag Lys Lys Leu Lys 935	g aag 3017 s Lys
ggc cta cag cgg ttg Gly Leu Gln Arg Leu 940				
agg cag gag gag gga Arg Gln Glu Glu Gly 955				
ctg gct cct gac ggc Leu Ala Pro Asp Gly 970				
cgc cag gcc atc gcc Arg Gln Ala Ile Ala 99	Asp Glu Gln	aag aag gtg Lys Lys Val 995	gtg tgg acg gag Val Trp Thr Glu 100	ı Gln
age eee ega tga tge Ser Pro Arg *	accgtgc ccct	teeegg gaetgt	agggg gettetgtgt	3261
gcctgttaat gcagtcct ggcacatgag gccggctc	gt tcctcagcc	c aggccctctt	ggcacagctg tggg	gctcctt 3321 cacgtgc 3381
aggtcacaca cagtgaag	cc acttgtaac	t gcacactttt	ctgtggaaac atct	tcaccc 3441
tttaccaggc ttggcatg	gt ctgaactgg	a aaccctgaga	atgtttctgc agta	iggacag 3501
gagggacatc ttcccatg cctgtctgca ggcccgat				
gtcaaaggct tttggagt	ga ccaaaagca	c agaggcagcg	ggtggggcgc ctgg	ggtggtc 3681
cccaaggtcg ctgccacc	ct tgcccgggg	c agaggcataa	gcccacatat gct	stgacgc 3741
tggccacctt ttctcagc	at aaagcctcto	u gargeeteag g gargataaaa	acqutacttt cant	agagac 3801 agagtet 3861
gtgcccgtg gcccctgt	gc ctgttcggt	g ggggtgtccc	agagaagcct ggca	accagta 3921 3931
•				3,331

FIG. 1E

LCRR S A D L ${f T}$ Α L D E E 20 ATG GGG GAA CTG TGC CGC AGG GAC TCC GCA CTC ACG GCA CTG GAC GAG GAG ACA CTG TGG 60 S H R H R I V R С I С Ρ S R 40 GAG ATG ATG GAG AGC CAC CGC CAC AGG ATC GTA CGC TGC ATC TGC CCC AGC CGC CTC ACC 120 K V С Q L D E Ξ Ε 60 CCC TAC CTG CGC CAG GCC AAG GTG CTG TGC CAG CTG GAC GAG GAG GTG CTG CAC AGC 180 S Α Μ R A G H L L D L Τ, 80 CCC CGG CTC ACC AAC AGC GCC ATG CGG GCC GGG CAC TTG CTG GAT TTG CTG AAG ACT CGA 240 T F Α L Ε S K F Н N 100 GGG AAG AAC GGG GCC ATC GCC TTC CTG GAG AGC CTG AAG TTC CAC AAC CCT GAC GTC TAC 300 G Q P D V D F S N F S G 120 ACC CTG GTC ACC GGG CTG CAG CCT GAT GTT GAC TTC AGT AAC TTT AGC GGT GAG AGC TCC 360 G L A G T S R N L R L L V 140 GAC TTT GAC GGT TTG GCA GGC ACT TCT AGG AAC CTC AGG CTC CTG GTA ACC CCA GGT CTC 420 т E C L A G Α I G S 160 ATG GAG ACA TCC AAG CTG ACC GAG TGC CTG GCT GGG GCC ATC GGC AGC CTG CAG GAG GAG 480 Q K E V L L R G R С 0 Q L 180 CTG AAC CAG GAA AAG GGG CAG AAG GAG GTG CTG CTG CGG CGG TGC CAG CAG CTG CAG GAG 540 Α E т R Α E G L H E 200 CAC CTG GGC CTG GCC GAG ACC CGT GCC GAG GGC CTG CAC CAG CTG GAG GCT GAC CAC AGC 600 Ε V R S Η Α F Η E V T, R $_{\rm L}$ K 220 CGC ATG AAG CGT GAG GTT AGC GCA CAC TTC CAT GAG GTG CTG AGG CTG AAG GAC GAG ATG S N Α L Q E K Ε 240 CTC AGC CTC TCG CTG CAC TAT AGC AAT GCG CTG CAG GAG AAG GAG CTG GCC GCC TCA CGC 720 0 F. E L Y L L K Q Ε L Q 260 TGC CGC AGC CTG CAG GAG GAG CTG TAT CTA CTG AAG CAG GAG CTG CAG CGA GCC AAC ATG 780 S C E L Ε L Q E 0 S L R T Α S D 280 GTT TCC TCC TGT GAG CTG GAA TTG CAA GAG CAG TCC CTG AGG ACA GCC AGC GAC CAG GAG 840 R T. E E N K E K L 300 TCC GGG GAT GAG GAG CTG AAC CGC CTG AAG GAG GAG AAT GAG AAA CTG CGC TCG CTG ACT 900 Α E K D Ι L EQSLD E Α R G 320 TTC AGC CTG GCG GAG AAG GAC ATT CTG GAG CAG AGC CTG GAC GAG GCG CGG GGG AGC CGA 960 Ι Н S Τ. R Ε R Α V 340 CAG GAG CTG GTG GAG CGC ATC CAC TCG CTG CGG GAG CGG GCC GTG GCT GCC GAG AGG CAG R Ρ S Ε L L S F T V H V S H 360 CGA GAG CAG GCC AGA CCC TCA GAG CTG CTG AGC TTC ACG GTC CAT GTG TCC CAC TCT GTC F. F. K Ε Q T L L F Q Q K S K M 380 CAG TAC TGG GAA GAG AAG GAA CAG ACC CTG CTG CAG TTC CAG AAG AGT AAG ATG GCC TGC 1140 Ε K V N Ĺ Α Q Α Q V С Ε L Q 400 CAA CTC TAC AGG GAG AAG GTG AAT GCG CTG CAG GCC CAG GTG TGC GAG CTG CAG AAG GAG S Α R D S Α Q R E I S Q S L 420 CGA GAC CAG GCG TAC TCC GCG AGG GAC AGT GCT CAG AGG GAG ATT TCC CAG AGC CTG GTG 1260 R R V F E D Q V C E L T L 440 GAG AAG GAC TCC CTC CGC AGG CAG GTG TTC GAG CTG ACG GAC CAG GTC TGC GAG CTG CGC

FIG. 2A

Q L R Q L Q A E P P G V L K Q E A 460 ACA CAG CTT CGC CAG CTG CAG GCA GAG CCT CCG GGT GTG CTC AAG CAG GAA GCC AGG ACC P R C E K Q R L V R M H A I C P 480 AGG GAG CCC TGT CCA CGG GAG AAG CAG CGG CTG GTG CGG ATG CAT GCC ATC TGC CCC AGA 1440 V S T E S Q L S L L 500 GAC GAC AGC GAC TGC AGC CTC GTC AGC TCC ACA GAG TCT CAG CTC TTG TCG GAC CTG AGT 1500 ELVD S F R S S S P 520 GCC ACG TCC AGC CGC GAG CTG GTG GAC AGC TTC CGC TCC AGC AGC CCC GCG CCC CCC AGC 1560 K R V A E D F G E E P W 540 CAG CAG TCC CTG TAC AAG CGG GTG GCC GAG GAC TTC GGG GAA GAA CCC TGG TCT TTC AGC E I P E G D G A P L P G A G 560 AGC TGC CTG GAG ATC CCG GAG GGA GAC CCG GGA GCC CTG CCG GGA GCT AAG GCA GGC GAC 1680 YELLD T A D L P 0 T. F. 580 CCA CAC CTG GAT TAT GAG CTC CTA GAC ACG GCA GAC CTT CCG CAG CTG GAA AGC AGC CTG Ρ G R L D V S E SAQAG 600 CAG CCA GTC TCC CCT GGA AGG CTT GAT GTC TCG GAG AGT GCA CAA GCC GGT CGT CTC CCG C G V L M R P A R R RRIL S 620 GCC TGC AGC GGC GTC CTC ATG CGG CGG AGG CCA GCC CGC AGG ATC CTG AGC CAG GTC ACC 1860 F Q G D ALLE 0 T S V T G G ATG CTG GCG TTC CAG GGG GAT GCA TTG CTG GAG CAG ATC AGC GTC ATC GGC GGG AAC CTC Ι Η R V T P G S A A D Q M ACG GGC ATC TTC ATC CAC CGG GTC ACC CCG GGC TCG GCG GAC CAG ATG GCC TTG CGC 660 0 I V M V D Y E А S E P L F 680 CCG GGC ACC CAG ATT GTG ATG GTT GAT TAC GAA GCC TCA GAG CCC TTG TTC AAG GCA GTC 2040 L E E A V GLLRR V ת G न 700 CTG GAG GAC ACG ACC CTG GAG GAG GCC GTG GGG CTT CTC AGG AGG GTG GAC GGC TTC TGC V K V N Т D G Y K RLLQDL 720 TGC CTG TCT GTG AAG GTC AAC ACG GAC GGT TAT AAG AGG CTA CTC CAG GAC CTG GAG GCC Т S G D S F Y I R V N L A M 740 AAA GTG GCG ACC TCG GGG GAC TCA TTC TAC ATC CGG GTC AAC CTG GCC ATG GAG GGC AGG 2220 O A H C N E V L H V т D 760 GCC AAA GGG GAG CTG CAG GTG CAT TGC AAC GAG GTC CTG CAC GTC ACC GAC ACC ATG TTC С G С W Α Η R V N SYTMKD 780 CAG GGC TGC GGC TGC TGG CAT GCC CAC CGC GTG AAC TCT TAC ACC ATG AAG GAT ACT GCC T Т P N Y S R Α Q Q Q L I A Ι 800 GCG CAC GGC ACC ATC CCC AAC TAC TCC AGG GCT CAG CAG CTC ATA GCC CTC ATC CAG 2400 C T V T K P S S G G P R 0 K 820 GAC ATG ACT CAG CAG TGC ACC GTG ACC CGC AAG CCA TCT TCT GGG GGA CCA CAG AAG CTG V S Μ D K Α K S Α Ρ L R L F GTC CGC ATC GTC AGT ATG GAC AAA GCC AAG GCC AGC CCT CTG CGT TTG TCC TTT GAC AGG P S R M E G S S Т C F W A 860 GGC CAG TTG GAC CCC AGC AGG ATG GAG GGC TCC AGC ACG TGC TTC TGG GCC GAG AGC TGC 2580 T L V R P H R P A R P R 880 CTC ACC CTG GTG CCC TAT ACC CTG GTG CGG CCC CAT CGA CCC GGC CGG CCT GTG P R Α V G K I L S E K L C CTC CTC GTG CCC AGG GCG GTT GGG AAG ATC CTG AGC GAG AAA CTG TGC CTC CAA GGG 2700 A E Y L S Q E E Y E A TTT AAG AAG TGC CTG GCA GAG TAC TTG AGC CAG GAG GAG TAT GAG GCC TGG AGC CAG AGA 2760 920

Ŧ I Q E G E V S G G R C W V T R H A GGG GAC ATC ATC CAG GAG GGA GAG GTG TCC GGG GGC CGC TGC TGG GTG ACC CGC CAT GCT 2820 LMEKNT H A L L D V Q L D S 960 GTG GAG TCC CTC ATG GAA AAG AAC ACC CAT GCC CTC CTG GAC GTC CAG CTG GAC AGT GTC 2880 Η R M D I F P T V V S I H V 980 N E TGC ACC CTG CAC AGG ATG GAC ATC TTC CCC ATC GTC ATC CAC GTC TCT GTC AAC GAG AAG 2940 K L K Y G L Q R L G T S E E Q L 1000 ATG GCA AAG AAG CTC AAG AAG GGC CTA CAG CGG TTG GGC ACC TCA GAG GAG CAG CTC CTG R Q E E G D D L R Α P С L Y S S 1020 GAG GCT GCG AGG CAG GAG GGA GAC CTG GAC CGG GCG CCC TGT CTA TAC AGC AGC CTG D G W S D L D G L L S C V R Q 1040 GCT CCT GAC GGC TGG AGC GAC CTG GAC GGC CTG CTC AGC TGT GTC CGC CAG GCC ATC GCC Q K K V Q R R RHPRINPS 1060 GAC GAG CAG AAG AAG GTG CAA CGC CGA CGT CAT CCA AGA ATT AAC CCA AGC CAG AGG ACG 3180 I Α Т 0 Q R Q C H R R I N P R Q R M 1080 GGC ATC GCC ACC CAG CAA CGC CAG TGT CAC CGA AGA ATT AAC CCA AGG CAG AGG ATG GGC Q Q R Q С H R R I N Р S Q R T 1100 ATT GCC ACC CAG CAA CGC CAG TGT CAC CGA AGA ATT AAC CCA AGC CAG AGG ACG GGC ATC 3300 C Q C Н R R I N P S O R Т I A G 1120 ACC ACC CAG CAA TGC CAG TGT CAC CGA AGA ATT AAC CCA AGC CAG AGG ACG GGC ATC GCC SDTLKKDKLLPRNTT 1139 ATG CCT TCA TCT TCG GAC ACT CTC AAA AAA GAT AAG CTT CTG CCC AGA AAC ACC ACA 3417

FIG. 2C

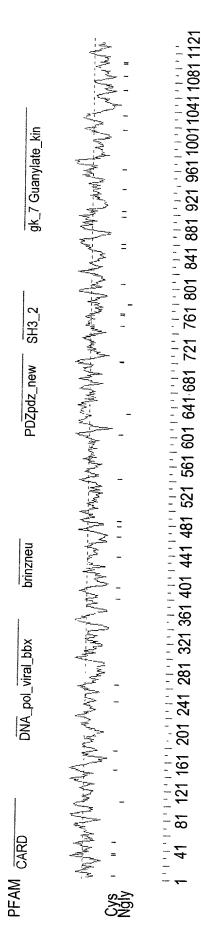
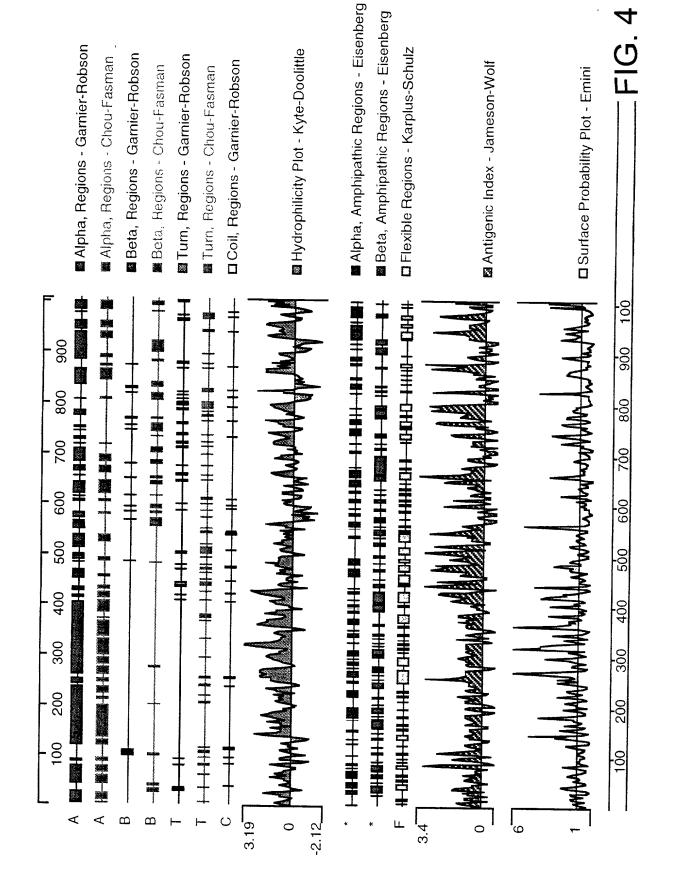


FIG. 3



EETLWEMMESHRHRIVRCICPSRLTPYLRQAKVLCQLDEEEVLHSPR 62 107 *->aeddrrllrknrlellgeltlsglLdhLleknvLteeeeEkikaknt trr..dkareLiDsvqkkGnqAfqiFlqaLretdqelladlllde<-*
+ + +a L+D ++++G + + +Fl++L+ +++ + + +</pre> + + + r + + + + + + + 1 + L + + + vL + + eE++ 63 LTNSAMRAGHLLDLLKTRGKNGAIAFLESLKFHNPDVYTLVTGLQ **CARD:** domain 1 of 1, from 16 to 107: score -4.1, E = 0.9416

FIG. 5A

629 QVTMLAF-QGDALLEQISVIGGN1tGIFIHRVTPG-SAADQMA-LRP 611 of 1, from 568 to 659: score 5.3, E = 0.39
*->eitlekevkrgglGfsikggsdk..givvsevlpGsgaAeagGrLke ++t+ ++ 1 +i++ + +gi++ +v pG +aA++ L++ GDvIlsvNG.....gdvenmsheravlaikgsgg..evtLtvlRd<-G+I+ v+ + +++ + +e+ ++e+av +++ g ++++v d GTQIVMVDYeaseplfkAVLEDTTLEEAVGLLRRVDGfcCLSVKVNTD 612 568 PDZ: domain 1 CARD14

FIG. 5B

CARD14

FYIRVNLAMEGRAKGELQVHCNEVLHVTDTMfqGCGCWHAHRVNSyt 725 +y ++ + e++ +EL ++ +++++v++ ++ g w ++ +++ +*->eyvvAlYDyeagnedELsFkkGDiitvleks..ddgwweGelnr. FIG. 5C SH3_2: domain 1 of 1, from 679 to 744: score -4.5, E = 3.8 744 ...tGkeGlfPsnYVeeie<-* 726 mkdraahgripnysragog 619 CARD14 CARD14

Guanylate_kin: domain 1 of 1, from 856 to 948: score -24.2, E = 0.073 *->TRpVpRpgEvdGkdYhFVssrEemekdIaaneFlEygefqgnyYGTs

+++s Ee e+ ++++ + ge++g + --A------EYLS-QEEYEAWSQRGDIIQEGEVSGGRCWVT 887 856

letvrqvakqgKiciLDvepQgvkrlrtaelsNPivvFIaPpSl..qele

936 RHAVESLMEKNTHALLDVQLDSVCTLHRMDIF-PIVIHVSVNEKmaKKLK A ++ A-+-888 CARD14

krLegrnkesEes<-*

k L+++++ SEe+ 937

KGLQRLGT-SEEQ

CARD14

948

FIG. 5D

```
----TFSLAEKDILEQSLDEA----RGSRQE-LVERIHSLRERAVAAERQ 318
                        *->dsyqkssgnss..lwesnyqnwqqEaaKLkaqienLQnNrnqRhllG
                                                                                                                         EdLgsLslKELgqLEgqLEkgLkhIRsrKngllldgieelgkKErelgee
+ sl E LEg L+++ R + 1++ i+ i+ 1+ + +
                                                                                                                                                                                                                                                  FIG. 5E
                                                    S+ +++ ++ +S++++ +E+++Lk++e+L+ +
VSSCELELQEQslRTASDQESGDEELNRLKEENEKLR--SL--
K-box: domain 1 of 1, from 239 to 325: score -36.5, E = 2.9
                                                                                                                                                                                                                          NkaLrkKiee<-*
                                                                                                                                                                                                                                                   + +66
                                                                                                                                                                                                                                                                         319 RE---QYWEE
                                                                                                                                                                          278
                                                                          239
                                                                          CARD14
                                                                                                                                                                                                                                                                         CARD14
                                                                                                                                                                            CARD14
```

